

**Results of the 2007 Avian Monitoring Surveys Conducted at the Morris Wetland
Mitigation Bank Site, Grundy County, Illinois**

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On 29 March 1999, the Illinois Department of Transportation (IDOT) requested that we monitor the breeding season avian fauna within the Morris Wetland Banking Site near Morris in Grundy County (Figure 1). We were asked to perform a Level 2 Wildlife Assessment as described in the Illinois Wetland Restoration and Creation Guide (Admiraal et al. 1997). Breeding season censuses at the banking site were conducted for three consecutive years. We were instructed to discontinue surveys in 2001. Memoranda detailing the results of the three breeding season surveys completed (1999, 2000 and 2001) have been forwarded to IDOT.

In May of 2007 we were instructed to resume expanded four season avian surveys at this site. At the time of the request the winter and spring migration seasons had already passed, therefore, this report contains only the breeding and fall migration season survey results for 2007. We were also tasked to monitor a newly established heron rookery located in the southwest quadrant of the property (Figure 1).

Project Area

The Morris Wetland Banking Site is located in Grundy County just south of Morris (Figure 1). It is bounded on the north by the Illinois River, to the west by IL 47, on the south by Pine Bluff Road and to the east by various private and county owned properties, and is approximately 365 ha in area. The legal location of the project area is: ILLINOIS, Grundy County. 3rd Principal Meridian: Township 33 North, Range 7 East, portions of Sections 2, 3, 10, and 11.

Approximately 60% of the property is composed of old fields that have developed into grass/forblands or have been planted with a variety of wetland tree species. Portions of the Mazon River and Mud Slough meander through the site. These two water courses are bordered by strips of riparian forest that cover approximately 20% of the site. An additional 10% of the area is composed of shrub/forbland that borders a section of Mud Slough. The remaining 10% of the site is covered by open water.

Methods

Twenty-two census points were established in the Morris Wetland Banking Site in all major cover types during 1999 (Figure 1 and Table 1). One additional point was established in 2000 within a proposed wetland creation site. These points were used in the 2007 censuses. All census point locations are identified on a set of aerial photographs.

We sub-sampled non-linear (i.e. at least 50 m in narrowest dimension) habitat parcels using point counts (Manley et al. 1993; Ralph et al. 1993). We recorded all

individuals seen or heard within a range of 75 meters (including birds seen flying over) during 10-minute count periods. These timed counts provide measures of the structure of bird communities (number of individuals and number of species) within the various habitat types. Birds detected during a point count outside the habitat type being sampled were included in the species list for the project (Table 2), but not in the census list for that point (Tables 3 and 4). We also recorded all birds seen or heard within the project area outside of the 10-minute count periods. These sightings are also included in our species list for the project area (Table 2).

Results

Ninety-three species representing 36 families have been observed at the Morris Wetland Banking Site since avian surveys were initiated in 1999 (Table 2).

Only Great Blue Herons were observed entering or leaving the vicinity of the heron rookery located near census point 6 (Figure 1). In order not to disturb the nesting herons, we remained at least 100 m away from the rookery during the breeding season. Approximately 55 nests, built in two large and a number of smaller Sycamores (*Plantanus occidentalis*) situated within 50 m of each other on both sides of the Mazon River, were counted during the fall migration visits (Figure 1).

Breeding Season

Breeding censuses were conducted on 12 June and 26 July 2007. One-hundred seventy-eight individuals representing 33 species were recorded within 75 m of census points during our timed censuses (Table 3). Seven additional species were recorded beyond the 75 m count threshold during censuses or while moving between census points bringing the total number of species observed during the 2007 breeding season at the Morris Wetland Banking Site to 40 (Table 4). No Federal or Illinois listed species were detected during any breeding season visits to the site in 2007.

Fall Migration Season

Fall migration season censuses were conducted 27 September and 16 November 2007. Census points 17 and 18 were not accessible during the September visit because of road construction at two gully crossings. Two-hundred thirty-five individuals representing 34 species were recorded within 75 m of census points during our timed censuses (Table 5). Fourteen additional species were recorded beyond the 75 m count threshold during censuses or while moving between census points bringing the total number of species observed during the 2007 fall migration season at the Morris Wetland Banking Site to 48 (Table 4). No Federally listed species were observed, however one Illinois

endangered species, the Northern Harrier, was detected hunting near census point 17 during November visit to the site.

Discussion

Ninety-three species representing 36 families have been recorded at the Morris Wetland Banking Site since avian surveys were initiated in 1999. Of these, 33 and 34 species were observed during the 2007 breeding and fall migration surveys respectively. The Great Blue Heron rookery located near census point 6 contained approximately 55 nests located in Sycamore trees on both sides of the Mazon River. The colony was not approached during the breeding season to count nests in order not to disturb the herons.

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Table 1. Description of habitat surrounding census points established in the Morris Wetland Banking Site, Grundy County, Illinois.

Census Point	Habitat Description	Legal Location
1	Floodplain Terrace Forest	Grundy Co., IL; T 33 N, R 7E; Section 10, SE/4, SW/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,577,790mN 381,810mE
2	Old field	Grundy Co., IL; T 33 N, R 7E; Section 10, SE/4, SE/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,577,775mN 381,430mE
3	Floodplain Terrace Forest	Grundy Co., IL; T 33 N, R 7E; Section 10, NE/4, SW/4, SE/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,577,900mN 382,100mE
4	Floodplain Forest	Grundy Co., IL; T 33 N, R 7E; Section 10, NW/4, SW/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,577,990mN 381,190mE
5	Old Field Tree Planting	Grundy Co., IL; T 33 N, R 7E; Section 10, NW/4, SE/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,578,010mN 381,460mE
6	Floodplain Forest	Grundy Co., IL; T 33 N, R 7E; Section 10, NE/4, SE/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,578,000mN 381,720mE

Table 1 continued on following page.

Table 1. Description of habitat surrounding census points (Continued).

Census Point	Habitat Description	Legal Location
7	Floodplain Forest	Grundy Co., IL; T 33 N, R 7E; Section 10, SW/4, NW/4, SE/4; Morris, IL 7.5' series USGS topographic quadrangle map.
8	Floodplain Forest / Backwater Pond	UTM Zone 16 4,578,150mN 381,900mE Grundy Co., IL; T 33 N, R 7E; Section 10, SE/4, NE/4, SE/4; Morris, IL 7.5' series USGS topographic quadrangle map.
9	Floodplain Forest	UTM Zone 16 4,578,200mN 383,510mE Grundy Co., IL; T 33 N, R 7E; Section 11, SW/4, NW/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map.
10	Floodplain Forest / Backwater Pond	UTM Zone 16 4,578,260mN 383,860mE Grundy Co., IL; T 33 N, R 7E; Section 11, NW/4, NE/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map.
11	Old Field Tree Planting	UTM Zone 16 4,578,340mN 383,120mE Grundy Co., IL; T 33 N, R 7E; Section 10, NE/4, NW/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map.
12	Old Field	UTM Zone 16 4,578,400mN 381,320mE Grundy Co., IL; T 33 N, R 7E; Section 10, SW/4, SE/4, NE/4; Morris, IL 7.5' series USGS topographic quadrangle map.
		UTM Zone 16 4,578,580mN 382,420mE

Table 1 continued on following page.

Table 1. Description of habitat surrounding census points (Concluded).

Census Point	Habitat Description	Legal Location
13	Old Field	Grundy Co., IL; T 33 N, R 7E; Section 10, NW/4, SE/4, NW/4; Morris, IL 7.5' series USGS topographic quadrangle map.
14	Shrubland	UTM Zone 16 4,578,660mN 381,500mE Grundy Co., IL; T 33 N, R 7E; Section 10, NE/4, SW/4, NE/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,578,690mN 382,210mE
15	Old Field Tree Planting	Grundy Co., IL; T 33 N, R 7E; Section 11, NE/4, SW/4, NW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,578,730mN 382,960mE
16	Shrubland	Grundy Co., IL; T 33 N, R 7E; Section 10, NE/4, SE/4, NE/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,578,850mN 382,500mE
17	Old Field Tree Planting	Grundy Co., IL; T 33 N, R 7E; Section 11, NE/4, SE/4, NW/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,578,800mN 383,450mE
18	Old Field Tree Planting	Grundy Co., IL; T 33 N, R 7E; Section 11, NE/4, SW/4, NE/4; Morris, IL 7.5' series USGS topographic quadrangle map. UTM Zone 16 4,578,800mN 383,820mE

Table 1 continued on following page.

Table 1. Description of habitat surrounding census points (Concluded).

Census Point	Habitat Description	Legal Location
19	Floodplain Forest	<p>Grundy Co., IL; T 33 N, R 7E; Section 11, SW/4, NW/4, NW/4; Morris, IL 7.5' series USGS topographic quadrangle map.</p> <p>UTM Zone 16 4,579,100mN 382,710mE</p>
20	Floodplain Terrace Forest	<p>Grundy Co., IL; T 33 N, R 7E; Section 11, SW/4, NE/4, NW/4; Morris, IL 7.5' series USGS topographic quadrangle map.</p> <p>UTM Zone 16 4,579,100mN 383,240mE</p>
21	Old Field	<p>Grundy Co., IL; T 33 N, R 7E; Section 10, NE/4, NE/4, NE/4; Morris, IL 7.5' series USGS topographic quadrangle map.</p> <p>UTM Zone 16 4,579,130mN 382,600mE</p>
22	Old Field	<p>Grundy Co., IL; T 33 N, R 7E; Section 2, SW/4, SE/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map.</p> <p>UTM Zone 16 4,579,390mN 383,250mE</p>
23	Old Field	<p>Grundy Co., IL; T 33 N, R 7E; Section 10, SW/4, SW/4, SW/4; Morris, IL 7.5' series USGS topographic quadrangle map.</p> <p>UTM Zone 16 4,577,750mN 381,150mE</p>

Table 2. Cumulative list of bird species observed during all years of monitoring visits conducted at the Morris Wetland Banking study site, Grundy County, Illinois.

Nomenclature and taxonomic order from American Ornithologists' Union 2000 and Banks et al 2002, 2003, 2004, 2006 and 2007. Status from Illinois Endangered Species Protection Board 2006. Illinois occurrence and breeding status from Bohlen, H.D. 1989, Goetz 1989 and 1990, Goetz and Robinson 1988, Goetz and Stotz 1999, Johnson, D.B., P.R. Clyne and M.F. Deaton 1998, Johnson, D. B. and D. F. Stotz 2005, Kleen, Cordle and Montgomery 2004, Stotz, D.F. 2001, Stotz, D.F. and D.B. Johnson 2002, 2003 and 2004 and Williamson, C. 2002.

<u>Family</u>	
	Subfamily
	<i>Scientific name</i> - Common Name
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Family Anatidae	
	Sub-family Anserinae
	Branta canadensis - Canada Goose *
	Sub-family Anatinae
	Aix sponsa - Wood Duck *
	Anas platyrhynchos - Mallard *
Family Phasianidae	
	Sub-family Meleagridinae
	Meleagris gallopavo - Wild Turkey X, but reintroduced *
Family Phalacrocoracidae	
	Phalacrocorax auritus - Double-crested Cormorant *
Family Ardeidae	
	Ardea herodias - Great Blue Heron *
	Ardea alba - Great Egret

Table 2. continued on following page.

Table 2. Cumulative list of bird species (continued)

<u>Family</u>	Subfamily	<i>Scientific name</i> - Common Name
Family Cathartidae		Cathartes aura - Turkey Vulture *
Family Accipitridae		
	Sub-family Accipitrinae	
		Haliaeetus leucocephalus - Bald Eagle ST FT *
		Accipiter cooperii - Cooper's Hawk *
		Buteo platypterus - Broad-winged Hawk *
		Buteo jamaicensis - Red-tailed Hawk *
		Circus cyaneus – Northern Harrier SE *
Family Charadriidae		Charadrius vociferous – Killdeer
Family Laridae		
	Sub-family Larinae	
		Larus argentatus - Herring Gull *
Family Columbidae		
		Columba livia - Rock Pigeon *
		Zenaida macroura - Mourning Dove *
Family Cuculidae		
	Sub-family Coccyzinae	
		Coccyzus americanus - Yellow-billed Cuckoo *

Table 2. continued on following page.

Table 2. Cumulative list of bird species (continued)

<u>Family</u>	
Subfamily	
<i>Scientific name</i> - Common Name	
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Family Strigidae	
Megascops asio - Eastern Screech-owl *	
Strix varia - Barred Owl *	
Family Apodidae	
Sub-family Chaeturinae	
Chaetura pelagica - Chimney Swift *	
Family Trochilidae	
Sub-family Trochilinae	
Archilochus colubris - Ruby-throated Hummingbird *	
Family Alcedinidae	
Sub-family Cerylinae	
Megaceryle alcyon - Belted Kingfisher *	
Family Picidae	
Sub-family Picinae	
Melanerpes erythrocephalus - Red-headed Woodpecker *	
Melanerpes carolinus - Red-bellied Woodpecker *	
Picoides pubescens - Downy Woodpecker *	
Picoides villosus - Hairy Woodpecker *	
Colaptes auratus - Northern Flicker *	
Dryocopus pileatus - Pileated Woodpecker *	

Table 2. continued on following page.

Table 2. Cumulative list of bird species (continued)

<u>Family</u>	
Subfamily	
<i>Scientific name</i> - Common Name	

Family Tyrannidae

Sub-family Fluvicolinae

Contopus virens - Eastern Wood-pewee *

Empidonax virescens - Acadian Flycatcher *

Empidonax minimus - Least Flycatcher *

Sayornis phoebe - Eastern Phoebe *

Sub-family Tyranninae

Myiarchus crinitus - Great Crested Flycatcher *

Tyrannus tyrannus - Eastern Kingbird *

Family Vireonidae

Vireo flavifrons - Yellow-throated Vireo *

Vireo gilvus - Warbling Vireo *

Vireo olivaceus - Red-eyed Vireo *

Family Corvidae

Cyanocitta cristata - Blue Jay *

Corvus brachyrhynchos - American Crow *

Family Hirundinidae

Sub-family Hirundininae

Progne subis - Purple Martin *

Tachycineta bicolor - Tree Swallow *

Stelgidopteryx serripennis - Northern Rough-winged Swallow *

Petrochelidon pyrrhonota - Cliff Swallow *

Table 2. continued on following page.

Table 2. Cumulative list of bird species (continued)

<u>Family</u>	Subfamily	<i>Scientific name</i> - Common Name
<hr/>		
Family Paridae		
		Poecile atricapillus - Black-capped Chickadee *
		Baeolophus bicolor - Tufted Titmouse *
Family Sittidae		
	Sub-family Sittinae	
		Sitta carolinensis - White-breasted Nuthatch *
Family Certhiidae		
		Certhia americana - Brown Creeper *
Family Troglodytidae		
		Thryothorus ludovicianus - Carolina Wren *
		Troglodytes aedon - House Wren *
Family Regulidae		
		Regulus satrapa - Golden-crowned Kinglet
Family Sylviidae		
	Sub-family Polioptilinae	
		Polioptila caerulea - Blue-gray Gnatcatcher *
Family Turdidae		
		Sialia sialis - Eastern Bluebird *
		Catharus ustulatus - Swainson's Thrush
		Hylocichla mustelina - Wood Thrush *
		Turdus migratorius - American Robin *
Family Mimidae		
		Dumetella carolinensis - Gray Catbird *

Table 2. continued on following page.

Table 2. Cumulative list of bird species (continued)

<u>Family</u>	Subfamily	<i>Scientific name</i> - Common Name
<hr/>		
Family Sturnidae		
		Sturnus vulgaris - European Starling I *
Family Bombycillidae		
		Bombycilla cedrorum - Cedar Waxwing *
Family Parulidae		
		Vermivora peregrina - Tennessee Warbler
		Dendroica petechia - Yellow Warbler *
		Dendroica pensylvanica - Chestnut-sided Warbler *
		Dendroica magnolia - Magnolia Warbler
		Dendroica virens - Black-throated Green Warbler *
		Dendroica palmarum - Palm Warbler
		Dendroica striata - Blackpoll Warbler
		Setophaga ruticilla - American Redstart *
		Helmitheros vermivorum - Worm-eating Warbler *
		Seiurus aurocapilla - Ovenbird *
		Geothlypis trichas - Common Yellowthroat *
		Icteria virens - Yellow-breasted Chat *
Family Thraupidae		
		Piranga olivacea - Scarlet Tanager *

Table 2. continued on following page.

Table 2. Cumulative list of bird species (continued)

<u>Family</u>	
Subfamily	
<i>Scientific name</i> - Common Name	
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Family Emberizidae	
Pipilo erythrophthalmus - Eastern Towhee *	
Spizella arborea – American Tree Sparrow	
Spizella pusilla - Field Sparrow *	
Poocetes gramineus - Vesper Sparrow *	
Passerculus sandwichensis - Savannah Sparrow *	
Ammodramus savannarum - Grasshopper Sparrow *	
Melospiza melodia - Song Sparrow *	
Melospiza Georgiana – Swamp Sparrow	
Zonotrichia albicollis - White-throated Sparrow *	
Family Cardinalidae	
Cardinalis cardinalis - Northern Cardinal *	
Peucaicus ludovicianus - Rose-breasted Grosbeak *	
Passerina cyanea - Indigo Bunting *	
Spiza americana - Dickcissel *	
Family Icteridae	
Dolichonyx oryzivorus - Bobolink WL *	
Agelaius phoeniceus - Red-winged Blackbird *	
Sturnella magna - Eastern Meadowlark *	
Quiscalus quiscula - Common Grackle *	
Molothrus ater - Brown-headed Cowbird *	
Icterus galbula - Baltimore Oriole *	

Table 2. concluded on following page.

Table 2. Cumulative list of bird species (concluded)

<u>Family</u>	Subfamily	<i>Scientific name</i> - Common Name
Family Fringillidae		
	Sub-family Carduelinae	
		Carpodacus mexicanus - House Finch I *
		Carduelis tristis - American Goldfinch *
Family Passeridae		
		Passer domesticus - House Sparrow I *

SE = State Endangered

FT = Federally Threatened

ST = State Threatened

X = Extirpated from Illinois

WL = Illinois Watch List

* = Confirmed Breeding in Illinois

I = Introduced

Table 3. Results of the 2007 breeding season avian monitoring censuses conducted at the Morris Wetland Banking site, Grundy County, Illinois. The standardized common names of bird species are used (A.O.U. Check-list of North American Birds 1998). The values represent the highest of the counts for the two censuses conducted at each census point. Counts of the total number of individuals of each species at each point are presented as well as the total number of individuals of each species.

	Census Point																							
Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
Red-eyed Vireo			1	1		1			1							1		1	1	1				8
Indigo Bunting	1	1		1		1							1			2		1		1		1		10
Downy Woodpecker				1		1		1		1								1						5
American Robin				1		1			1					2		1	1		1	2				10
Eastern Wood-pewee				1			1	1	1						1	1			1					7
Baltimore Oriole	1			1			1	1						1					1	1	1			8
Common Yellowthroat	1				1		1	1	1			1	1	1	1	1					1		1	12
Song Sparrow	1	2	1		4	2	1		1			1	2	1	3		1				1		4	25
House Wren			1				1	3	2	2			1				1	1	2	1			1	16
Northern Cardinal						1			1										1	1			1	5
Brown-headed Cowbird			1		1				1				1		1		4			1	2		1	13
Red-bellied Woodpecker						1		1	1															3
Cedar Waxwing		3																						3
American Goldfinch		2												1					1					4
Field Sparrow		1																						1
White-breasted Nuthatch	1						1	1								1								4
Tufted Titmouse			1					2																3
Rose-breasted Grosbeak			1					2						1										4
Gray Catbird			1													1				1				3
Blue Jay	2		1													1								4
Common Grackle							1						1	1					1					4
Red-tailed Hawk	1																							1
Northern Flicker					1			1																2
Grasshopper Sparrow					1						2						2							5
American Redstart														1								1		2
Dickcissel												1												1
Warbling Vireo										1			1		1						1			4
Red-winged Blackbird																	1				2	3		6
Great-crowned Flycatcher																		1						1
Eastern Bluebird															1									1
Wild Turkey									1															1
Yellow-breasted Chat										1														1
Wood Thrush										1														1
Total Individuals	8	9	8	6	8	8	7	13	12	6	2	3	8	9	8	9	10	5	9	9	8	5	8	178
Total Species	7	5	8	6	5	7	7	9	11	5	1	3	7	8	6	8	6	5	8	8	6	3	5	33

Table 4. Cumulative list of all birds observed during all 2007 breeding season avian monitoring visits to the Morris Wetland Banking site, Grundy County, Illinois. The standardized common names of bird species are used (A.O.U. Check-list of North American Birds 1998).

Species	1999	2000	2001	2007
Canada Goose			X	
Wood Duck			X	
Mallard			X	
Wild Turkey			X	X
Double-crested Cormorant		X		
Great Blue Heron	X	X	X	X
Great Egret		X		
Turkey Vulture		X	X	
Bald Eagle		X		
Copper's Hawk		X		
Red-shouldered Hawk			X	
Broad-winged hawk	X			
Red-tailed Hawk	X	X	X	X
Rock Pigeon		X		
Mourning Dove	X	X	X	
Yellow-billed Cuckoo		X	X	X
Chimney Swift	X	X		X
Ruby-throated Hummingbird			X	
Belted Kingfisher		X	X	X
Red-headed Woodpecker	X		X	
Red-bellied Woodpecker	X		X	X
Downey Woodpecker	X	X	X	X
Hairy Woodpecker	X			
Northern Flicker	X	X	X	X
Eastern Wood-pewee	X	X	X	X
Acadian Flycatcher	X			
Least Flycatcher			X	
Eastern Pheobe		X	X	
Great-crested Flycatcher	X	X	X	X
Eastern Kingbird	X			
Yellow-throated Vireo	X	X	X	
Warbling Vireo	X	X	X	X
Red-eyed Vireo	X	X	X	X
Blue Jay	X	X	X	X
American Crow	X	X	X	

Table 4 continued on following page.

Table 4. Cumulative list of all birds observed during all 2007 breeding season avian monitoring visits (continued)

Species	1999	2000	2001	2007
Purple Martin	X	X	X	
Tree Swallow	X		X	X
Northern Rough-winged Swallow		X	X	
Bank Swallow		X		
Barn Swallow			X	
Black-capped Chickadee	X	X	X	
Tufted Titmouse	X	X	X	X
White-breasted Nuthatch	X	X	X	X
Carolina Wren	X	X	X	
House Wren	X	X	X	X
Blue-gray Gnatcatcher	X		X	
Eastern Bluebird				X
Swainson's Thrush	X			
Wood Thrush	X	X	X	X
American Robin	X	X	X	X
Gray Catbird	X	X	X	X
European Starling	X	X	X	X
Cedar Waxwing		X	X	X
Tennessee Warbler	X		X	
Yellow Warbler	X			
Chestnut-sided Warbler	X		X	
Magnolia warbler			X	
Black-throated Green Warbler	X		X	
Blackpoll Warbler			X	
American Redstart		X	X	X
Worm-eating Warbler			X	
Ovenbird	X			
Common Yellowthroat	X	X	X	X
Yellow-breasted Chat	X	X		X
Scarlet Tanager		X	X	
Eastern Towhee			X	
Field Sparrow	X			X
Savannah Sparrow		X		
Grasshopper Sparrow	X	X	X	X
Song Sparrow	X	X	X	X
White-throated Sparrow			X	
Northern Cardinal	X	X	X	X
Rose-breasted Grosbeak	X	X	X	X
Indigo Bunting	X	X	X	X

Table 4 concluded on following page.

Table 4. Cumulative list of all birds observed during all 2007 breeding season avian monitoring visits (concluded).

Species	1999	2000	2001	2007
Dickcissel	X	X	X	X
Bobolink			X	
Red-winged Blackbird	X	X	X	X
Eastern Meadowlark				X
Common Grackle	X		X	X
Brown-Headed Cowbird	X	X	X	X
Baltimore Oriole	X	X	X	X
House Finch		X	X	
American Goldfinch	X	X	X	X
House Sparrow	X		X	
Total Species Per Year	52	51	65	40
Total Species All Years	84			

Table 5. Results of the 1007 fall migration season avian monitoring censuses conducted at the Morris Wetland Banking site, Grundy County, Illinois. The standardized common names of bird species are used (A.O.U. Check-list of North American Birds 1998). The values represent the total of the counts for the two censuses conducted at each census point. Counts for each species at each point are presented as well as the total count for each species.

	Census Point																							
Species	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
Mallard														1										1
Cooper's Hawk														1										1
Red-tailed Hawk																					1			1
Northern Waterthrush																1								1
Red-bellied Woodpecker	2		1			4	2	1	1	1			1	2		1			2	1	1		1	21
Downy Woodpecker			2	3		2	1	2	1							1		1	1	2	1		2	19
Northern Flicker										1		1		1									1	4
Pileated Woodpecker						1	1																	2
Eastern Wood-pewee	1			1																				2
Eastern Pheobe																							1	1
Blue Jay						3							1		1									5
Black-capped Chickadee	1			3		1	1	1						1				1		1		1	2	13
Tufted Titmouse													1											1
White-breasted Nuthatch				2		2	3							2		2		2	1	1			1	16
Brown Creeper	2					1													1					4
Carolina Wren	2		1																	1				4
Golden-crowned Kinglet								1																1
Eastern Bluebird												3												3
Swainson's Thrush				1																				1
American Robin			1			1		1								1					1			5
Gray Catbird																			1	1				2
European Starling			1			8		1				3	1								1			15
Yellow-rumped Warbler	1																							1
Palm Warbler										1														1
American Redstart	1							1																2
Common Yellowthroat														1										1
Vesper Sparrow												1												1
Song Sparrow		2					1				1													4
Swamp Sparrow					2																			2
White-throated Sparrow	5								3															8
Northern Cardinal				1				2						1										4
Rose-breasted Grosbeak			1				1	1															3	6
Red-winged Blackbird			1											60								20		81
American Goldfinch																						1		1
Total Individuals	15	2	8	11	2	23	10	11	5	2	2	8	4	70	1	6	0	4	5	7	6	21	12	235
Total Species	8	1	7	6	1	9	7	9	3	2	2	4	4	9	1	5	0	3	4	6	6	2	8	34

Table 6. Cumulative list of all birds observed during all 2007 fall migration season avian monitoring visits to the Morris Wetland Banking site, Grundy County, Illinois. The standardized common names of bird species are used (A.O.U. Check-list of North American Birds 1998).

Species	2007
Canada Goose	X
Wood Duck	X
Mallard	X
Great Blue Heron	X
Turkey Vulture	X
Cooper's Hawk	X
Red-tailed Hawk	X
Northern Harrier	X
Killdeer	X
Herring Gull	X
Chimney Swift	X
Belted Kingfisher	X
Red-bellied Woodpecker	X
Downy Woodpecker	X
Northern Flicker	X
Pileated Woodpecker	X
Eastern Wood-pewee	X
Eastern Pheobe	X
Blue Jay	X
American Crow	X
Black-capped Chickadee	X
Tufted Titmouse	X
Brown Creeper	X
White-breasted Nuthatch	X
Carolina Wren	X
Golden-crowned Kinglet	X
Eastern Bluebird	X
Swainson's Thrush	X
American Robin	X
Gray Catbird	X
European Starling	X
Cedar Waxwing	X
Yellow-rumped Warbler	X
Palm Warbler	X
American Redstart	X
Northern Waterthrush	X
Common Yellowthroat	X

Table 6. concluded on following page

Table 6. Cumulative list of all birds observed during all 2007 fall migration season (concluded).

Species	2007
American Tree Sparrow	X
Vesper Sparrow	X
Swamp Sparrow	X
Song Sparrow	X
White-throated Sparrow	X
Northern Cardinal	X
Rose-breasted Grosbeak	X
Red-winged Blackbird	X
Common Grackle	X
Brown-headed Cowbird	X
American Goldfinch	X
Total Species	48

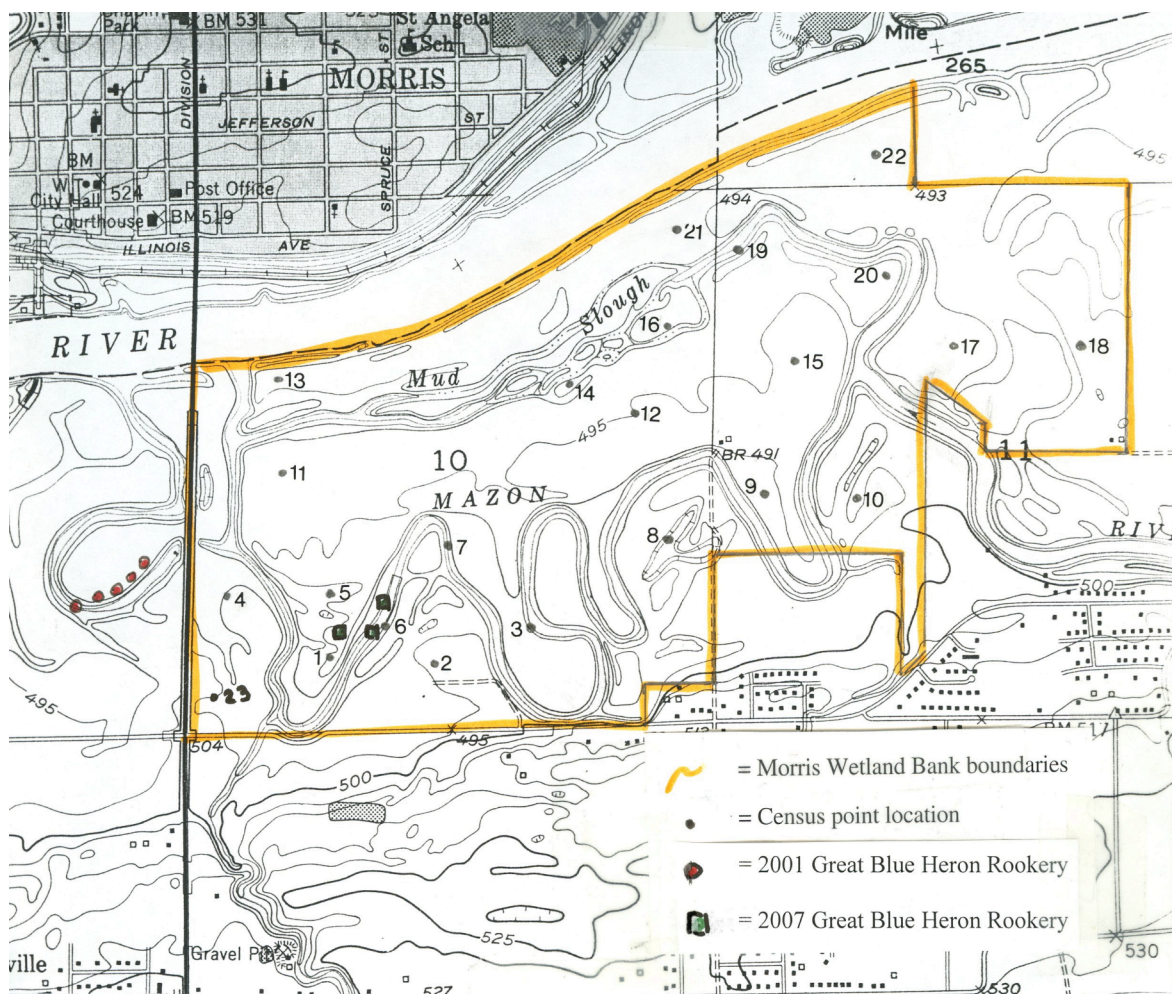


Figure 1. Location of the Morris Wetland Bank project area, the sighting points the 2001 and 2007 Great Blue Heron rookery located within the project area and the census points used in the avian survey of the project area.

